

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
23 August 2001 (23.08.2001)

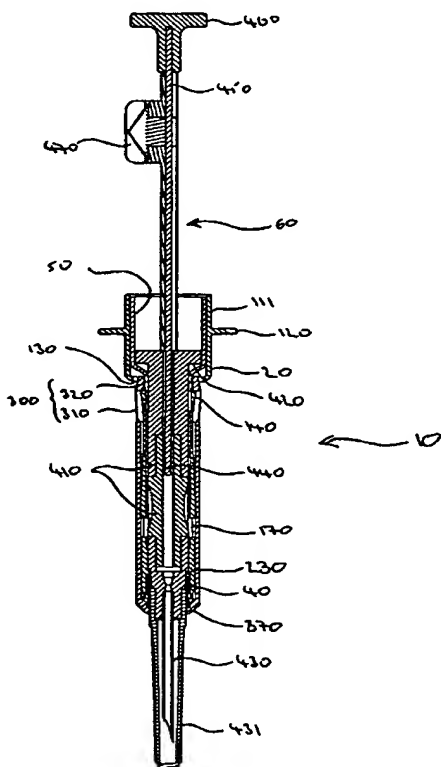
PCT

(10) International Publication Number
WO 01/60435 A1

- (51) International Patent Classification: **A61M 5/32**
- (21) International Application Number: **PCT/GB01/00590**
- (22) International Filing Date: **13 February 2001 (13.02.2001)**
- (25) Filing Language: **English**
- (26) Publication Language: **English**
- (30) Priority Data:
0003790.3 18 February 2000 (18.02.2000) GB
- (71) Applicant (for all designated States except MG, US): **ASTRAZENECA AB [SE/SE]; S-151 85 Sodertalje (SE).**
- (71) Applicant (for MG only): **ASTRAZENECA UK LIMITED [GB/GB]; 15 Stanhope Gate, London W1Y 6LN (GB).**
- (72) Inventors; and
(75) Inventors/Applicants (for US only): **SHAW, Derek, Joseph [GB/GB]; Alderley Park, Macclesfield, Cheshire SK10 4TG (GB). LAW, Brian, Robert [GB/GB]; 116 Regent Road, Leicester LE1 7LT (GB).**
- (74) Agent: **BRYANT, Tracey; Astrazeneca, Global Intellectual Property, PO Box 272, Mereside, Alderley Park, Macclesfield, Cheshire SK10 4GR (GB).**
- (81) Designated States (national): **AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.**
- (84) Designated States (regional): **ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian**

[Continued on next page]

(54) Title: **AUTOMATICALLY OPERABLE SAFETY SHIELD SYSTEM FOR SYRINGES**



(57) Abstract: An automatically operable safety shield system (10) for use with a syringe (60) comprises: an inner holder (20) into which said syringe (60) may be inserted; an outer shield (30) mounted outwards from said inner holder (20) axially movable between retracted and extended positions; a spring positioned between said inner holder (20) and said outer shield (30), urging said outer shield (30) to its extended position; said inner holder (20) having at least one first opening (130), distally thereto, at least one first indentation (170), and said outer shield (30) having at least one first stop member (300) engageable with said opening (130) when said outer shield (30) is in said retracted position engageable with said first indentation (170) when said outer shield (30) is in said extended position; the outer shield may be released from its retracted position by action of a trigger positioned within said inner holder or by a protrusion on the syringe plunger.

WO 01/60435 A1